ELSEVIER

Physica C 269 (1996) 361–363

PHYSICA C

Author Index to Volume 269

Adachi, S., see Tokiwa-Yamamoto, A., **269**, 354
Akiyoshi, M., see Hashimoto, K., **269**, 139
Andrikidis, C., see Choi, C.H., **269**, 306
Aoki, R., see Murakami, H., **269**, 83
Athanassopoulou, N., see Panagopoulos, C., **269**, 157
Aubin, M., see Ghamlouch, H., **269**, 163

Bach, H., see Brinkmann, M., **269**, 76
Bednarczyk, P.J., see Mogro-Campero, A., **269**, 325
Bhatti, G.S., see Hasanain, S.K., **269**, 149
Blinov, E.V., R. Laiho, E. Lähderanta, A.G. Lyublinsky and K.B. Traito, Relaxation of trapped magnetic moment in thin YBaCuO films at incomplete flux penetration, **269**, 268
Bolon, R.B., see Mogro-Campero, A., **269**, 325
Bourgeaux, B., see Nicoletti, S., **269**, 255
Brinkmann, M., T. Rex, M. Stief, H. Bach and K. Westerholt, Residual resistivity and oxygen stoichiometry in $Pr_{2-x}Ce_x$-$CuO_{4+\delta}$ single crystals, **269**, 76

Cabanel, C., see Nicoletti, S., **269**, 255
Cantoni, M., see Jeong, D.Y., **269**, 279
Caplin, A.D., see Tagaya, K., **269**, 339
Cardona, M., see Henn, R., **269**, 99
Catlow, C.R.A., see Stachiotti, M.G., **269**, 273
Chakoumakos, B.C., see Khasanova, N.R., **269**, 115
Chang, W.J., see Lin, C.L., **269**, 291
Charnaya, E.V., C. Tien, C.S. Wur and Yu.A. Kumzerov, Superconductivity of gallium in porous glass, **269**, 313
Chateigner, D., see Nicoletti, S., **269**, 255
Chen, J.L. and T.Y. Tseng, The interaction between a single vortex and a columnar defect in the superconducting multilayers, **269**, 330
Chi, C.C., see Lin, C.L., **269**, 291
Choi, C.H., Y. Zhao, C.C. Sorrell, M. La Robina and C. Andrikidis, The increase of the critical current density of $YBa_2Cu_3O_{7-y}$ by a modified melt-textured-growth method, **269**, 306
Christensen, N.E., see Stachiotti, M.G., **269**, 273
Chung, H., see Yoo, J., **269**, 109
Cohen, L., see Tagaya, K., **269**, 339
Conder, K. and Ch. Krüger, Low temperature (< 325°C) chemical diffusion of oxygen in the orthorhombic $YBa_2Cu_3O_{6+x}$, **269**, 92
Cooper, J.R., see Panagopoulos, C., **269**, 157
DeLuca, J.A., see Mogro-Campero, A., **269**, 325
Diko, P., I. Sargánková, M. Reissner and W. Steiner, Grain growth, microstructure and magnetic behavior of $YBa_2Cu_3O_{7-x}$(123)–Y_2BaCuO_5(211) composites prepared by sol–gel, **269**, 22
Ding, S.Y., see Zeng, Z.Y., **269**, 297

Foong, F., see Vasiliev, A.L., **269**, 181
Fukumoto, Y., H.J. Wiesmann, M. Suenaga and P. Haldar, Comparison of magnetically induced and transport current ac losses in silver-sheathed $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes, **269**, 349
Fukuoka ,, A., see Usami, R., **269**, 193
Fukuoka, A., see Tokiwa-Yamamoto, A., **269**, 354
Fukuoka, N., see Tagaya, K., **269**, 339

Gao, Y., see Mogro-Campero, A., **269**, 325
Ghamlouch, H. and M. Aubin, Additional Nernst voltage contribution to the Seebeck coefficient in YBCO due to guided motion by twin planes, **269**, 163
Ghosh, H., Temperature-dependent gap anisotropy from modified spin-bag mechanism, **269**, 55
Grover, A.K., see Mishra, P.K., **269**, 71
Gurvitch, M., see Tolpygo, S.K., **269**, 207

Habermeier, H.U., see Požek, M., **269**, 61
Haldar, P., see Fukumoto, Y., **269**, 349
Hasanain, S.K., S. Shahzada, A. Mumtaz and G.S. Bhatti, AC susceptibility hysteresis in granular superconductors, **269**, 149
Hashimoto, K., M. Akiyoshi, A. Wisniewski, M.L. Jenkins, Y. Toda and T. Yano, A high-resolution electron microscopy study of structural defects in $YBa_2Cu_4O_8$ superconductor, **269**, 139
Hashimoto, M., see Teshima, H., **269**, 15
Hattori, W., see Murakami, H., **269**, 83
He, L.L., see Jeong, D.Y., **269**, 279
Hegedüs, Z., see Lundqvist, P., **269**, 231
Henn, R., J. Kircher and M. Cardona, *c*-Polarized vibrational modes in La_2CuO_4 and $La_{1.87}Sr_{0.13}CuO_4$ determined by ellipsometry, **269**, 99
Ho, J.C., see Huang, Z.J., **269**, 220
Horiuchi, S., see Jeong, D.Y., **269**, 279
Hou, S.Y., see Tolpygo, S.K., **269**, 207

Huang, C.Y., see Huang, Z.J., **269**, 220
Huang, Z.J., J.G. Lin, J.J. Lin, J.C. Ho and C.Y. Huang, Thermoelectric power and superconducting transition in high-temperature superconductors $Dy_{1-x}Pr_xBa_2Cu_3O_7$, **269**, 220

Isobe, M., J.-Q. Li, Y. Matsui, F. Izumi, Y. Kanke and E. Takayama-Muromachi, Synthesis, crystal structures and superconductivity of new copper oxyfluorides, $Sr_2RCu_2O_5F$ (R = Y,La,Nd,Sm,Gd,Dy,Er and Yb), **269**, 5
Itoh, M., see Tokiwa-Yamamoto, A., **269**, 354
Itoh, M., see Usami, R., **269**, 193
Izumi, F., see Isobe, M., **269**, 5
Izumi, F., see Khasanova, N.R., **269**, 115

Jenkins, M.L., see Hashimoto, K., **269**, 139
Jeong, D.Y., M.H. Sohn, H.S. Kim, L.L. He, M. Cantoni and S. Horiuchi, Microstructures in high-J_c Tl-1223/Ag tapes, **269**, 279
Jia, S.L., see Sun, J.J., **269**, 343
Jiang, Q., see Ludwig, C., **269**, 249

Kanke, Y., see Isobe, M., **269**, 5
Khasanova, N.R., F. Izumi, M. Shida, B.C. Chakoumakos, E. Ohshima, M. Kikuchi and Y. Syono, Structural disorder and charge transfer in the superconductor $(Pb_{0.5}Cu_{0.5})$-$(Sr_{0.5}La_{0.5})_2CuO_{5+\delta}$, **269**, 115
Kheifets, A.S., see Veinger, A.I., **269**, 29
Kikuchi, M., see Khasanova, N.R., **269**, 115
Kikuchi, M., see Ohshima, E., **269**, 225
Kim, H., see Yoo, J., **269**, 109
Kim, H.S., see Jeong, D.Y., **269**, 279
Kircher, J., see Henn, R., **269**, 99
Kiuchi, M., H. Yamato and T. Matsushita, Longitudinal elastic correlation length of flux lines along the *c*-axis in superconducting Bi-2212 single crystal, **269**, 242
Ko, J., see Yoo, J., **269**, 109
Koblischka, M.R., see Mishra, P.K., **269**, 71
Krüger, Ch., see Conder, K., **269**, 92
Kuhl, J., see Ludwig, C., **269**, 249
Kühle, A., see Verbist, K., **269**, 131
Kumzerov, Yu.A., see Charnaya, E.V., **269**, 313
Kundrotas, P.J., see Tornau, E.E., **269**, 198
Kvam, E.P., see Vasiliev, A.L., **269**, 181

Lähderanta, E., see Blinov, E.V., **269**, 268
Laiho, R., see Blinov, E.V., **269**, 268
La Robina, M., see Choi, C.H., **269**, 306
Laugier, F., see Méchin, L., **269**, 124
Laval, J.Y., see Nicoletti, S., **269**, 255
Li, C.H., see Lin, C.L., **269**, 291
Li, J.-Q., see Isobe, M., **269**, 5
Li, J.W., see Sun, J.J., **269**, 343
Li, L., see Sun, J.J., **269**, 343
Li, M.Y., see Lin, C.L., **269**, 291
Lin, C.L., W.J. Chang, M.Y. Li, C.H. Li, C.C. Chi and M.K. Wu, Josephson coupling behavior of $YBa_2Cu_3O_{7-x}$ bicrystal grain-boundary junctions, **269**, 291
Lin, J.-Y., see Tolpygo, S.K., **269**, 207
Lin, J.G., see Huang, Z.J., **269**, 220
Lin, J.J., see Huang, Z.J., **269**, 220
Ling, X., see Zeng, Z.Y., **269**, 297
Liou, S.-H., see Vasiliev, A.L., **269**, 181
Ludwig, C., Q. Jiang, J. Kuhl and J. Zegenhagen, Electrodynamic properties of oxygen reduced $YBa_2Cu_3O_{7-x}$ thin films in the THz frequency regime, **269**, 249
Lundqvist, P., C. Tengroth, Ö. Rapp, R. Tellgren and Z. Hegedüs, Neutron-diffraction studies and interatomic distances in Ca–Pr doped $NdBa_2Cu_3O_{7-\delta}$, **269**, 231
Lyublinsky, A.G., see Blinov, E.V., **269**, 268

Maier, A., see Požek, M., **269**, 61
Malakhov, A.N. and A.L. Pankratov, Influence of thermal fluctuations on time characteristics of a single Josephson element with high damping. Exact solution, **269**, 46
Matsui, Y., see Isobe, M., **269**, 5
Matsushita, T., see Kiuchi, M., **269**, 242
Méchin, L., J.-C. Villégier, G. Rolland and F. Laugier, Double CeO_2/YSZ buffer layer for the epitaxial growth of $YBa_2Cu_3O_{7-\delta}$ films on Si (001) substrates, **269**, 124
Mehring, M., see Požek, M., **269**, 61
Mishra, P.K., G. Ravikumar, V.C. Sahni, M.R. Koblischka and A.K. Grover, Surface pinning in niobium and a high-T_c superconductor, **269**, 71
Mogro-Campero, A., P.J. Bednarczyk, Y. Gao, R.B. Bolon, J.E. Tkaczyk and J.A. DeLuca, Critical current density and microstructure of 7–8 μm thick spray pyrolyzed films of $TlBa_2Ca_2Cu_3O_y$, **269**, 325
Moriceau, H., see Nicoletti, S., **269**, 255
Morita, M., see Teshima, H., **269**, 15
Mumtaz, A., see Hasanain, S.K., **269**, 149
Murakami, H., W. Hattori and R. Aoki, Superconductivity and transport properties of narrow-gap semiconductor Pb(Tl)Te film by HWE growth, **269**, 83

Nicoletti, S., H. Moriceau, J.C. Villegier, D. Chateigner, B. Bourgeaux, C. Cabanel and J.Y. Laval, Bi-epitaxial YBCO grain boundary Josephson junctions on $SrTiO_3$ and sapphire substrates, **269**, 255

Ohshima, E., M. Kikuchi and Y. Syono, Superconductivity in $TlSr_{2-x}Ca_xYbCu_2O_7$ by isovalent cation substitution, **269**, 225
Ohshima, E., see Khasanova, N.R., **269**, 115
Ono, A., Large critical-temperature depression in Ga-1212 cuprate $Ba_2YCu_{2.85}Ga_{0.15}O_z$ by annealing at high pressures of oxygen, **269**, 301

Panagopoulos, C., W. Zhou, N. Athanassopoulou and J.R. Cooper, Surface-quality dependence of the low temperature magnetisation of $YBa_2Cu_3O_7$, **269**, 157
Pankratov, A.L., see Malakhov, A.N., **269**, 46
Phillips, J.M., see Tolpygo, S.K., **269**, 207
Požek, M., H.U. Habermeier, A. Maier and M. Mehring, Local field distribution of the vortex lattice near the surface of

type-II superconductors. Magnetic resonance lineshapes, **269**, 61

Rapp, Ö., see Lundqvist, P., **269**, 231
Ravikumar, G., see Mishra, P.K., **269**, 71
Reich, S., see Tsabba, Y., **269**, 1
Reissner, M., see Diko, P., **269**, 22
Ren, H.T., see Zeng, Z.Y., **269**, 297
Rex, T., see Brinkmann, M., **269**, 76
Rodriguez, C.O., see Stachiotti, M.G., **269**, 273
Rolland, G., see Méchin, L., **269**, 124
Rosengren, A., see Tornau, E.E., **269**, 198

Sahni, V.C., see Mishra, P.K., **269**, 71
Sargánková, I., see Diko, P., **269**, 22
Shahzada, S., see Hasanain, S.K., **269**, 149
Shibayama, T., see Tagaya, K., **269**, 339
Shida, M., see Khasanova, N.R., **269**, 115
Sohn, M.H., see Jeong, D.Y., **269**, 279
Sorrell, C.C., see Choi, C.H., **269**, 306
Stachiotti, M.G., C.R.A. Catlow, C.O. Rodriguez and N.E. Christensen, Electronic structure and phonon behaviour under pressure in $YBa_2Cu_4O_8$, **269**, 273
Steiner, W., see Diko, P., **269**, 22
Stief, M., see Brinkmann, M., **269**, 76
Suenaga, M., see Fukumoto, Y., **269**, 349
Sun, A.M., see Zeng, Z.Y., **269**, 297
Sun, J.J., B.R. Zhao, L.Z. Zheng, B. Xu, L. Li, J.W. Li, B. Yin, S.L. Jia and Z.X. Zhao, The morphology and interfacial effects on the $R-T$ curve of two unit-cell thick ultrathin $YBa_2Cu_3O_{7-\delta}$ film, **269**, 343
Syono, Y., see Khasanova, N.R., **269**, 115
Syono, Y., see Ohshima, E., **269**, 225

Tagaya, K., T. Yokoo, T. Shibayama, N. Fukuoka, L. Cohen and A.D. Caplin, Microwave magnetoabsorptions of $ErBa_2Cu_3O_y$ and $HoBa_2Cu_3O_y$ single crystals, **269**, 339
Takayama-Muromachi, E., see Isobe, M., **269**, 5
Tanabe, K., see Tokiwa-Yamamoto, A., **269**, 354
Tanabe, K., see Usami, R., **269**, 193
Tellgren, R., see Lundqvist, P., **269**, 231
Tengroth, C., see Lundqvist, P., **269**, 231
Teshima, H., M. Morita and M. Hashimoto, Comparison of the levitation forces of melt-processed YBaCuO superconductors for different magnets, **269**, 15
Tien, C., see Charnaya, E.V., **269**, 313
Tkaczyk, J.E., see Mogro-Campero, A., **269**, 325
Toda, Y., see Hashimoto, K., **269**, 139
Tokiwa-Yamamoto, A., A. Fukuoka, M. Itoh, S. Adachi, H. Yamauchi and K. Tanabe, Thermogravimetric study on $HgBa_2Ca_{n-1}Cu_nO_{2(n+1)+\delta}$ ($n = 1, 2, 3$) superconductors at various oxygen partial pressures, **269**, 354
Tolpygo, S.K., J.-Y. Lin, M. Gurvitch, S.Y. Hou and J.M. Phillips, T_c enhancement by low energy electron irradiation and the influence of chain disorder on resistivity and Hall coefficient in $YBa_2Cu_3O_7$ thin films, **269**, 207
Tornau, E.E., P.J. Kundrotas and A. Rosengren, Holes amount and aging of quenched samples of $YBa_2Cu_3O_{6+x}$, **269**, 198
Traito, K.B., see Blinov, E.V., **269**, 268
Tsabba, Y. and S. Reich, Giant mass anisotropy and high critical current in Hg-1223 superconducting films, **269**, 1
Tseng, T.Y., see Chen, J.L., **269**, 330

Usami, R., M. Itoh, A. Fukuoka ,, X.-J. Wu and K. Tanabe, Microstructure of proton-irradiated $HgBa_2Ca_{(n-1)}Cu_nO_y$ ($n = 2,3$), **269**, 193

Vasiliev, A.L., E.P. Kvam, F. Foong and S.-H. Liou, The microstructure of (Hg,Tl)-based high temperature superconducting films on $LaAlO_3$ substrates, **269**, 181
Vasiliev, A.L., see Verbist, K., **269**, 131
Veinger, A.I. and A.S. Kheifets, Magnetic field dependent microwave absorption in pure superconducting tin near T_c, **269**, 29
Verbist, K., A. Kühle and A.L. Vasiliev, Microstructructural comparison of $YBa_2Cu_3O_{7-x}$ thin films laser deposited in O_2 and O_2/Ar ambient, **269**, 131
Villégier, J.-C., see Méchin, L., **269**, 124
Villegier, J.C., see Nicoletti, S., **269**, 255

Westerholt, K., see Brinkmann, M., **269**, 76
Wiecko, C., The isotope effect in the infinite-range hopping approximation to the negative-U Hubbard model, **269**, 286
Wiesmann, H.J., see Fukumoto, Y., **269**, 349
Wisniewski, A., see Hashimoto, K., **269**, 139
Wu, M.K., see Lin, C.L., **269**, 291
Wu, X.-J., see Usami, R., **269**, 193
Wur, C.S., see Charnaya, E.V., **269**, 313

Xu, B., see Sun, J.J., **269**, 343
Xu, X.N., see Zeng, Z.Y., **269**, 297

Yamato, H., see Kiuchi, M., **269**, 242
Yamauchi, H., see Tokiwa-Yamamoto, A., **269**, 354
Yano, T., see Hashimoto, K., **269**, 139
Yao, X.X., see Zeng, Z.Y., **269**, 297
Yin, B., see Sun, J.J., **269**, 343
Yokoo, T., see Tagaya, K., **269**, 339
Yoo, J., H. Chung, J. Ko and H. Kim, Effect of Au and Mg addition to Ag sheath on microstructure and superconducting properties of BSCCO-2223 tapes, **269**, 109
Yu, Y., see Zeng, Z.Y., **269**, 297

Zegenhagen, J., see Ludwig, C., **269**, 249
Zeng, Z.Y., Y. Yu, A.M. Sun, X.N. Xu, S.Y. Ding, X.X. Yao, H.T. Ren and X. Ling, Surface pinning and influence of field reduction on magnetic relaxation in $YBa_2Cu_3O_7$ bulk sample, **269**, 297
Zhao, B.R., see Sun, J.J., **269**, 343
Zhao, Y., see Choi, C.H., **269**, 306
Zhao, Z.X., see Sun, J.J., **269**, 343
Zheng, L.Z., see Sun, J.J., **269**, 343
Zhou, W., see Panagopoulos, C., **269**, 157
Ziese, M., Vortex motion in inhomogeneous superconductors. Linear response, **269**, 35

ELSEVIER

Physica C 269 (1996) 364–365

PHYSICA C

Analytic Subject Index to Volume 269

Ac susceptibility
–of YBCO 149
Annealling effect
–on $Ba_2YCu_{2.85}Ga_{0.15}O_{6.9}$ 301
Applications of high-T_c superconductors 325, 349

Columnar defect 330
Critical current density
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes 349
–of $HgBa_2Ca_2Cu_3O_{8+\delta}$ films 1
–of $TlBa_2Ca_2Cu_3O_y$ thick films 325
–of $YBa_2Cu_3O_{7-x}$(123)–Y_2BaCuO_5(211) 22
–of $YBa_2Cu_3O_{7-y}$ 306
Crystal structure
–of $(Pb_{0.5}Cu_{0.5})(Sr_{0.5}La_{0.5})_2CuO_{5+\delta}$ 115
Cu–O bond length 225
Cu–O chains 198

d-wave superconductor 157
Dynamical conductivity
–in $YBa_2Cu_3O_{7-x}$ films 249

EDS
–of $HgBa_2Ca_1Cu_2O_{6+x}$ thin films 181
ESR of Sn 29
ESR 61
–of $ErBa_2Cu_3O_y$ 339
–of $HoBa_2Cu_3O_y$ 339
Elastic correlation length 242
Electrical resistivity
–of BSCCO-2223 tapes 109
–of $Nd_{1-2x}Ca_xPr_xBa_2Cu_3O_{7-\delta}$ 231
–of $Pr_{2-x}Ce_xCuO_{4+\delta}$-single crystals 76
–of $TlSr_{2-x}Ca_xYbCu_2O_7$ 225
–of $YBa_2Cu_3O_{7-\delta}$ thin films 207
–of $YBa_2Cu_3O_{7-\delta}$ ultrathin film 343
–of $YBa_2Cu_3O_{7-x}$ grain-boundary junctions 291
Electrical transport properties
–of Pb(Tl)Te films 83
Electron-doped superconductors 76
Electronic structure
–of $YBa_2Cu_4O_8$ 273
Energy gap
–at $YBa_2Cu_3O_{7-x}$ grain-boundary junctions 291
Epitaxial growth
–of $YBa_2Cu_3O_{7-\delta}$ films 124

Far infrared spectra
–of $La_{1.87}Sr_{0.13}CuO_4$ 99
–of La_2CuO_4 99
Field distribution
–in $YBa_2Cu_3O_{7-\delta}$ thin films 61
Fluctuation effects 46
Flux creep 35
Flux lattice 61
Flux motion 163
Flux pinning 35
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes 349
–in Tl-1223/Ag tape 279
–in $YBa_2Cu_3O_7$ 297

Gap anisotropy 55
Grain growth
–in $YBa_2Cu_3O_{7-x}$(123)–Y_2BaCuO_5(211) 22
Granular superconductivity 149

HREM
–of $YBa_2Cu_3O_7$ 157
–of $YBa_2Cu_3O_{7-x}$ thin films 131
–of $YBa_2Cu_4O_8$ 139
HRTEM
–of Tl-1223/Ag tape 279
Hall effect
–in $YBa_2Cu_3O_{7-\delta}$ thin films 207
High-pressure synthesis
–of $Sr_2RCu_2O_5F$ 5
Hole concentration
–in $Dy_{1-x}Pr_xBa_2Cu_3O_{7-d}$ 220
–in $Nd_{1-2x}Ca_xPr_xBa_2Cu_3O_{7-\delta}$ 231
–in Pb(Tl)Te films 83
–in $YBa_2Cu_3O_{6+x}$ 198
Hubbard model 286

Image simulation 139
Irradiation effect
–on $HgBa_2Ca_{(n-1)}Cu_nO_y$ 193
–on $YBa_2Cu_3O_{7-\delta}$ thin films 207
Irreversibility line
–of Ga 313
–of $HgBa_2Ca_2Cu_3O_{8+\delta}$ films 1
–of $YBa_2Cu_3O_{7-y}$ 306
Isotope effect 286

Josephson effect 46
–in YBCO grain boundary 255
Josephson junction 46

Laser deposition
–of $YBa_2Cu_3O_{7-x}$ thin films 131
Levitation force
–in YBaCuO 15
London penetration depth 61, 330
Lower critical field H_{c1}
–of $HoBa_2Cu_3O_y$ 339

Magnetic relaxation
–in Bi-2212 single crystal 242
–in $YBa_2Cu_3O_7$ 297
–in YBaCuO films 268
Magnetic susceptibility
–of $Ba_2YCu_{2.85}Ga_{0.15}O_{6.9}$ 301
–of $Sr_2Nd_{1-x}Ca_xCu_2O_5F$ 5
–of $TlSr_{2-x}Ca_xYbCu_2O_7$ 225
Magnetization
–of $Bi_2Sr_2CaCu_2O_8$ single crystal 71
–of Ga in porous glass 313
–of $HgBa_2Ca_{(n-1)}Cu_nO_y$ 193
–of N6 71
–of $YBa_2Cu_3O_7$ 157
Magnetoresistance 35
Mass anisotropy
–in $HgBa_2Ca_2Cu_3O_{8+\delta}$ films 1
Melt texturing
–of $YBa_2Cu_3O_{7-y}$ 306
Microstructure
–of BSCCO-2223 tapes 109
–of $HgBa_2Ca_{(n-1)}Cu_nO_y$ 193

–of $HgBa_2Ca_1Cu_2O_{6+x}$ thin films 181
–of Tl-1223/Ag tape 279
–of $TlBa_2Ca_2Cu_3O_y$ thick films 325
–of $YBa_2Cu_3O_{7-x}$ thin films 131
–of $YBa_2Cu_3O_{7-x}$(123)–Y_2BaCuO_5(211) 22
Microwave absorption in Sn 29
Microwave absortion
–of $ErBa_2Cu_3O_y$ 339
–of $HoBa_2Cu_3O_y$ 339
Multilayers 330

Neutron diffraction
–of $(Pb_{0.5}Cu_{0.5})(Sr_{0.5}La_{0.5})_2CuO_{5+\delta}$ 115
Normal-state properties
–of $YBa_2Cu_3O_{7-\delta}$ thin films 207

Oxygen deficiency 291
Oxygen depletion
–in $YBa_2Cu_3O_{7-x}$ films 249
Oxygen difusion
–in $YBa_2Cu_3O_{6+x}$ 92
Oxygen stoichiometry
–in $Pr_{2-x}Ce_xCuO_{4+\delta}$-single crystals 76
–in $YBa_2Cu_3O_{6+x}$ 92
–in $YBa_2Cu_3O_{6+x}$ 198
–of $(Pb_{0.5}Cu_{0.5})(Sr_{0.5}La_{0.5})_2CuO_{5+\delta}$ 115
–of $HgBa_2Ca_{n-1}Cu_nO_{2(n+1)+\delta}$ 354

Pair breaking 76
Penetration depth
–in $YBa_2Cu_3O_7$ 157
–in $YBa_2Cu_3O_{7-x}$ films 249
Percolation 35
Phase diagram
–of Ga 313
Phonon behaviour
–in $YBa_2Cu_4O_8$ 273
Phonon spectra
–of $La_{1.87}Sr_{0.13}CuO_4$ 99
–of La_2CuO_4 99
Pinning potential
–in Bi-2212 single crystal 242
Planar stacking faults 139

Raman scattering
–of $YBa_2Cu_4O_8$ 273

Seebeck coefficient
–in $YBa_2Cu_3O_7$ single crystals 163
Sheath materials 109
Spin bag mechanism 55
Structure
–of $Nd_{1-2x}Ca_xPr_xBa_2Cu_3O_{7-\delta}$ 231
–of $Sr_2RCu_2O_5F$ 5
–of $TlSr_{2-x}Ca_xYbCu_2O_7$ 225
–of YBCO film 255
–of $YBa_2Cu_3O_{7-\delta}$ ultrathin film 343
–of $YBa_2Cu_4O_8$ 139
Subgrain boundary 279
Substitution effects
–in $Ba_2YCu_{2.85}Ga_{0.15}O_{6.9}$ 301
Superconducting levitation 15
Surface pinning
–in $Bi_2Sr_2CaCu_2O_8$ single crystal 71
–in N6 71
–in $YBa_2Cu_3O_7$ 297
Synthesis
–of $HgBa_2Ca_2Cu_3O_{8+\delta}$ films 1
–of Pb(Tl)Te films 83
–of $YBa_2Cu_3O_{7-\delta}$ ultrathin film 343

TEM
–of $HgBa_2Ca_1Cu_2O_{6+x}$ thin films 181
TGA
–of $HgBa_2Ca_{n-1}Cu_nO_{2(n+1)+\delta}$ 354
Thermoelectric power
–in $Dy_{1-x}Pr_xBa_2Cu_3O_{7-d}$ 220
Thickness of buffer layers 124
Thin films 330

Weak links 255

ELSEVIER

Physica C 269 (1996) 366–367

PHYSICA C

Materials Index to Volume 269

$(Bi,Pb)_2Sr_2Ca_2Cu_3O_{10}$ tapes
–critical current density 349
–flux pinning 349
BSCCO-2223 tapes
–electrical resistivity 109
–microstructure 109
$Ba_2YCu_{2.85}Ga_{0.15}O_{6.9}$
–annealling effect 301
–magnetic susceptibility 301
–substitution effects 301
Bi-2212 single crystal
–magnetic relaxation 242
–pinning potential 242
$Bi_2Sr_2CaCu_2O_8$ single crystal
–magnetization 71
–surface pinning 71

$Dy_{1-x}Pr_xBa_2Cu_3O_{7-d}$
–hole concentration 220
–thermoelectric power 220

$ErBa_2Cu_3O_y$
–eSR 339
–microwave absortion 339

Ga in porous glass
–magnetization 313
Ga
–irreversibility line 313
–phase diagram 313

$HgBa_2Ca_{(n-1)}Cu_nO_y$
–irradiation effect 193
–magnetization 193
–microstructure 193
$HgBa_2Ca_{n-1}Cu_nO_{2(n+1)+\delta}$
–oxygen stoichiometry 354
–tGA 354
$HgBa_2Ca_1Cu_2O_{6+x}$ thin films
–eDS 181
–microstructure 181
–tEM 181
$HgBa_2Ca_2Cu_3O_{8+\delta}$ films
–critical current density 1
–irreversibility line 1
–mass anisotropy 1
–synthesis 1
$HoBa_2Cu_3O_y$
–eSR 339
–lower critical field H_{c1} 339
–microwave absortion 339

$La_{1.87}Sr_{0.13}CuO_4$
–far infrared spectra 99
–phonon spectra 99
La_2CuO_4
–far infrared spectra 99
–phonon spectra 99

N6
–magnetization 71
–surface pinning 71
$Nd_{1-2x}Ca_xPr_xBa_2Cu_3O_{7-\delta}$
–electrical resistivity 231
–hole concentration 231
–structure 231

$(Pb_{0.5}Cu_{0.5})(Sr_{0.5}La_{0.5})_2CuO_{5+\delta}$
–crystal structure 115
–neutron diffraction 115
–oxygen stoichiometry 115
Pb(Tl)Te films
–electrical transport properties 83
–hole concentration 83
–synthesis 83
$Pr_{2-x}Ce_xCuO_{4+\delta}$-single crystals
–electrical resistivity 76
–oxygen stoichiometry 76

$Sr_2Nd_{1-x}Ca_xCu_2O_5F$
–magnetic susceptibility 5
$Sr_2RCu_2O_5F$
–high-pressure synthesis 5
–structure 5

Tl-1223/Ag tape
–flux pinning 279
–hRTEM 279
–microstructure 279
$TlBa_2Ca_2Cu_3O_y$ thick films
–critical current density 325
–microstructure 325
$TlSr_{2-x}Ca_xYbCu_2O_7$
–electrical resistivity 225
–magnetic susceptibility 225
–structure 225

YBCO film
–structure 255
YBCO grain boundary
–josephson effect 255
YBCO
–ac susceptibility 149
$YBa_2Cu_3O_{6+x}$
–hole concentration 198
–oxygen difusion 92
–oxygen stoichiometry 92
–oxygen stoichiometry 198
$YBa_2Cu_3O_7$ single crystals
–seebeck coefficient 163
$YBa_2Cu_3O_7$
–flux pinning 297
–hREM 157
–magnetic relaxation 297
–magnetization 157
–penetration depth 157
–surface pinning 297
$YBa_2Cu_3O_{7-\delta}$ films
–epitaxial growth 124
$YBa_2Cu_3O_{7-\delta}$ thin films
–electrical resistivity 207
–field distribution 61
–hall effect 207
–irradiation effect 207
–normal-state properties 207
$YBa_2Cu_3O_{7-\delta}$ ultrathin film
–electrical resistivity 343
–structure 343
–synthesis 343
$YBa_2Cu_3O_{7-x}$ films
–dynamical conductivity 249
–oxygen depletion 249
–penetration depth 249

$YBa_2Cu_3O_{7-x}$ grain-boundary junctions
–electrical resistivity 291
–energy gap 291
$YBa_2Cu_3O_{7-x}$ thin films
–hREM 131
–laser deposition 131
–microstructure 131
$YBa_2Cu_3O_{7-x}$(123)–Y_2BaCuO_5(211)
–critical current density 22
–grain growth 22
–microstructure 22
$YBa_2Cu_3O_{7-y}$
–critical current density 306
–irreversibility line 306
–melt texturing 306
$YBa_2Cu_4O_8$
–electronic structure 273
–hREM 139
–phonon behaviour 273
–raman scattering 273
–structure 139
YBaCuO films
–magnetic relaxation 268
YBaCuO
–levitation force 15